

WHAT IS CLAIMED IS:

1. A body member for an implantable endoprosthesis, the body member comprising a first component formed from a wear resistant first material, and a second component formed from a resilient second material, wherein the body member is adapted to articulate such that one or more surfaces of the endoprosthesis come into contact with the first component.
2. The body member of claim 1, wherein the second component is a central component disposed between the first component and a third component also formed from the first material.
3. The body member of claim 1, wherein the first material comprises one or more metals.
4. The body member of claim 3, wherein the metal is an alloy.
5. The body member of claim 4, wherein the alloy is a cobalt-chrome alloy.
6. The body member of claim 1, wherein the first material comprises a ceramic.
7. The body member of claim 6, wherein the ceramic comprises alumina or zirconia.

8. The body member of claim 1, wherein the first material comprises a wear resistant polymer.
9. The body member of claim 8, wherein the polymer comprises a polyethylene.
10. The body member of claim 7, wherein the polyethylene has a molecular weight ranging from about  $5.0 \times 10^5$  grams/mol to about  $6.0 \times 10^6$  grams/mol.
11. The body member of claim 9, wherein the polyethylene has a modulus of elasticity ranging from about 0.7 to about 3.0 Gpa.
12. The body member of claim 10, wherein the polyethylene is cross-linked to an extent ranging between about 0 to about 50 %, as measured by a swell ratio.
13. The body member of claim 8, wherein the polymer comprises a polyetheretherketone (PEEK).
14. The body member of claim 1, wherein the second material comprises a polymer having a durometer ranging from about 75A to about 65D.
15. The body member of claim 14, wherein the polymer is selected from the group consisting of polyurethanes, silicones, and polyolefins.

16. The body member of claim 15, wherein the polyurethane is a polycarbonate polyurethane.

17. The body member of claim 1, wherein the first component is a central component disposed between the second component and a third component also formed from the second material.

18. The body member of claim 2 wherein the first and third components include portions for selectively securing the first, second, and third components in a predetermined configuration.

19. The body member of claim 18, wherein the portions for selectively securing include a lip protrusion and a flexible engaging member.

20. A body member for an implantable endoprosthesis, the body member comprising a wear resistant material selected from the group consisting of ultra-high molecular weight polyethylene, polyetherether ketone, cobalt chrome alloy, alumina, and zirconia, wherein the body member is adapted to articulate with respect to one or more surfaces of the endoprosthesis.

21. An implantable endoprosthesis comprising a shell and a body member, the body member including a first component formed from a wear resistant first material,

and a second component formed from a resilient second material, wherein the body member is adapted to articulate with the shell such that one or more surfaces of the shell come into contact with the first component and not the second component.

22. The implantable endoprosthesis of claim 21, wherein the shell comprises two diametrically opposed portions for surrounding the body member and a central post for extending through an opening in the body member.

23. The implantable endoprosthesis of claim 21, wherein the body member comprises a third component formed of the first material, wherein the shell comprises first and second portions, and wherein the body member is disposed between the first and second shell portions such that the first component contacts an inner surface of the first shell and the third component contacts an inner surface of the second shell.

24. A surgical kit comprising an implantable endoprosthesis comprising a shell and a body member, the body member including a first component formed from a wear resistant first material, and a second component formed from a resilient second material, wherein the body member is adapted to articulate with the shell such that one or more surfaces of the shell come into contact with the first component and not the second component.

25. The surgical kit of claim 24, further comprising a syringe for introducing lubricant into the interior of the endoprosthesis.